

# Manufacturers' Shipments, Inventories, and Orders

March 1972



U. S. DEPARTMENT DE COMMERCE · Social and Economic Statistics Administration · BUREAU OF THE CENSUS

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#### SUMMARY

New orders for manufactured products in March increased \$710 million or 1.1 percent to \$63.23 billion from \$62.51 billion in February after seasonal adjustment. Shipments increased \$670 million or 1.1 percent to \$62.54 billion from \$61.87 billion in February. Unfilled orders increased \$690 million or 0.9 percent to \$81.21 billion at the end of March. Manufacturers' inventories increased \$90 million to \$101.12 billion at the end of March. The inventories to shipments ratio decreased from 1.63 to 1.62.

For the 3 months ending in March, the average change in new orders represents a 2.1 percent increase compared with a 1.2 percent increase for the 3 months ending in December and a 0.2 percent increase for the 3 months ending in September.

#### **NEW ORDERS**

New orders for durable goods increased \$560 million or 1.6 percent in March to \$35.06 billion. Increases in new orders for primary metals (\$300 million), fabricated metal products (\$290 million), electrical machinery (\$160 million) were partially offset by decreases in transportation equipment (\$510 million).

# SHIPMENTS

Shipments of durable goods increased \$450 million or 1.3 percent to \$34.46 billion in March. Shipments of primary metals and nonelectrical machinery each increased \$140 and \$130 million respectively. Shipments of nondurable goods increased \$220 million or 0.8 percent to \$28.08 billion.

# UNFILLED ORDERS

Unfilled orders for durabel goods increased \$600 million or 0.8 percent to \$77.68 billion at the end of March. Increases in primary metals (\$260 million), fabricated metal products (\$260 million) and nonelectrical machinery (\$140 million) more than offset a decrease in transportation equipment (\$230 million).

## **INVENTORIES**

Inventories of durable goods increased \$90 million while nondurable goods showed no change in March. At the all manufacturing level, materials and supplies decreased \$90 million, work in process increased \$280 million and finished goods decreased \$110 million.

## SCHEDULED RELEASE DATES

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The advance report is based on a tabulation of early reports and is limited to statistics on shipments, new orders, and unfilled orders for a few broad industry categories. The present report is based on more complete reporting, but the estimates are also considered preliminary. Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for April is scheduled for release on May 19, 1972 and the full report is scheduled for release on May 31, 1972.

For an explanation of terms used in this report see appendix following table 5.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Social and Economic Statistics Administration, Bureau of the Census, Industry Division, Washington D.C. 20233.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, BY INDUSTRY GROUP

(Millions of dollars)

	Seasona	lly adju			ut seaso ustment <sup>1</sup>	nal	Seasona	lly adju	ısted	Without seasona adjustment		nal
Industry group	Mar. 1972 <sup>p</sup>	Feb. 1972	Jan. 1972	Mar. 1972 <sup>p</sup>	Feb. 1972	Mar. 1971	Mar. 1972 <sup>p</sup>	Feb. 1972	Jan. 1972	Mar. 1972 <sup>p</sup>	Feb. 1972	Mar. 1971
			Shipme	ents		75+	" dec.	7	Total in	ventorie	5	
All manufacturing industries:	00.505	61,865	61,350	64,234	62,174	59,383	101.119	101,033	100,876	101,559	101,530	100,956
Total, excluding transportation	62,535 54,415	53,647	53,775	55,653	53,740	50,908	87,172	87,183	87,089	87,528	87,575	87,061
Durable goods industries, total	34,460	34,013	33,573	35,864	34,374	32,898	64,858	64,769	64,722	65,182	65,024	65,412
Stone, clay, and glass products	2,059	2,048	2,040	2,006	1,890	1,616	2,220	2,235	2,234	2,304	2,303	2,354 9,472
Primary metals, total	5,290 2,449	5,154 2,344	5,003 2,233	5,573 2,627	5,223 2,403	5,270 2,576	9,554 5,153	9,459 5,071	9,407 5,026	9,529 5,086	9,502 5,106	5,071
Blast furnaces, steel mills	2,841	2,810	2,770	2,946	2,820	2,694	4,401	4,388	4,381	4,443	4,396	4,401
Fabricated metal products, total Metal cans, barrels, and drums	3,642 390	3,566	3,587 381	3,707	3,606 357	3,596 279	7,123	7,183	7,194 796	7,123	7,123	7,124 713 14,070
Mechinery, except electrical, total	5,446 348	5,314 370	5,573 377	5,783 380	5,529 360	5,230 407	13,343	13,425 997	13,474	13,477	13,550	932
Engines and turbines	534	494	531	617	521	513	1,133	1,119	1,125	1,180	1,171	1,188
Construction, mining, and material handling equipment	894	911	937	941	954	878	2,571	2,610	2,662	2,615	2,652	2,668 1,204
Metalworking machinery	445 469	408 455	404 463	489 481	439 453	368 413	1,166 1,107	1,167	1,178 1,125	1,165	1,175 1,145	1,194
General industrial machinery  Electrical machinery, total	5,000	4,937	5,044	5,171	4,990	4,479		9,823	9,799	9,880	9,766	10,020
Electrical transmission and distribution equipment and industrial apparatus	1,011	996	966	1,075	1,021	918	2,304	2,292	2,170	2,314	2,296	2,196
Household appliances, including radio and TV	1,125	1,069 1,232	1,039 1,364	1,116 1,338	1,052 1,248	1,004 1,226		1,811 3,012	1,895 3,030	1,806 3,042	1,791 3,000	1,906 3,069
Communication equipment	1,283	8,218	7,595	8,581	8,434	8,475	13,947	13,850	13,787	14,031	13,955	13,895
Transportation equipment, total  Motor vehicles and parts  Aircraft, missiles, and parts	5,522 1,900	5,559 1,972	5,052 1,815	5,869 2,005	5,756 1,986	5,455 2,355	7,554	3,938 7,550	3,872 7,581	4,012 7,568	4,036 7,521	4,024 7,913
<pre>lnstruments and related products All other durable goods industries</pre>	1,014 3,889	1,009 3,767	1,032 3,699	1,004 4,039	955 3,747	959 3,273		2,494 6,300	2,482 6,345	2,488 6,350	2,484 6,341	2,385 6,092
Nondurable goods industries, total	28,075	27,852	27,777	28,370	27,800	26,485		36,264	36,154	36,377	36,506	35,544
Food and kindred products, tota1  Meat products	9,458 2,031	9,421 2,011	9,339 2,079	9,374 2,039	9,231 2,003	8,672 1,853	797	9,227 786	9,124	1	9,232	8,709 836 2,317
Tobacco products Textile mill products	526 (2)	532 (²)	553 (²)	- 510 (2)	500 (²)	465 (2)	(2)	2,312	2,334	(2)	2,430	2,317 ( <sup>2</sup> ) 2,724
Paper and allied products, total Pulp, paper, etc	2,440 966	2,431 964	2,451 1,007	2,481 993	2,426 967	2,211 935	1,000	2,739 994	2,752	1,006	2,734 1,000 6,818	1,018
Chemicals and allied products, total Industrial chemicals, except pigments	4,635 1,455	4,582 1,474	4,572 1,588	4,756 1,493	4,580 1,473	4,291 1,415	1,865	6,684 1,868	1	1,913		1,927
Petroleum and coal products	2,520 1,679	2,470 1,666 6,750	2,405 1,700 6,757	2,443 1,750 7,056	2,445 1,687 6,931	2,275 1,563 7,008	2,193	2,378 2,171 10,753	2,186	2,222	2,211	2,174 10,417
All other nondurable goods industries	6,817	0,730		rders		.,,	<del> </del>			L		
All manufacturing industries:							1				00.005	92 650
Total	63,228	62,514	62,996		63,414 54,738			80,519 54,591				82,659 56,809
Total, excluding transportation		54,110 34,505	53,964 35,099	56,587 36,427	35,398	32,761	1 '			1 ′		79,583
Durable goods industries, total  Primary metals, total	35,061 5,545	5,248	5,221	5,877	5,661	5,483	6,279	6,022	5,927			8,852
Blast furnaces, steel mills	2,541	2,454	2,370	2,797	2,745			1		1		5,616 11,087
Fabricated metal products	3,901	3,611	1 1	1	1 ′		i	1 . 1	1 '	1 .	1 .	1
Machinery, except electrical, total Engines and turbines Construction, mining, and material	5,583		5,732 357			5,300		5,075	5,021	5,157	5,110	4,901
handling equipment	950											2,371 1,093
Metalworking machinery General industrial machinery	420										1,444	
Electrical machinery, total	5,060	4,898	4,743	5,180	5,002	4,38	8 14,349	14,291	14,329	14,284	14,275	14,145
Electrical transmission and distribution equipment and industrial apparatus Household appliances, including radio	1,023	945	798	1,093	1				1			
and TV	1,187								6,013	5,976	6,012	5,725
Transportation equipment, total Aircraft, missiles, and parts	7,89	8,404	9,032									
All other durable goods industries		1	1	1	1	1		5,25	5,24	5,36	5,265	5,152
Nondurable goods industries, total	1	1	1		28,016	26,53	6 3,53	3,44	3,28	5 3,51	3,426	3,076
Industries with unfilled orders	. 7,72	5 7,702	7,63	7,82	7,76	7,13	8 3,53	3,44	3,28	3,51	3,426	3,076
Industries without unfilled orders	. 20,44	20,307	20,26	7 20,637	20,250	19,35	<u> </u>				<u> </u>	

<sup>-</sup> Represents zero. Preliminary. Revised.

Adjusted for trading-day and calendar-month variations.

Beginning with July 1971, the shipments level for this series appears to be high compared with information shown in other textile series.

All data for this industry group are, therefore, withheld pending investigation and revision.

Table 2.--value of manufacturers' SHIPMENTS, INVENTORIES, AND ORDERS, FOR MARKET CATEGORIES AND SUPPLEMENTARY SERIES
(Millions of dollars)

		(11	IIIIIII	or dolla	13)								
Industry group	Seasonally adjusted			Without seasonal adjustment <sup>1</sup>			Season	ally adj	usted	Without seasocal adjustment			
industry group	Mar. 1972P	Feb. 1972r	Jan. 1972	Mar. 1972P	Feb. 1972 <sup>r</sup>	Mar. 1971	Mar. 1972P	Feb. 1972	Jan. 1972	Mar. 1972P	Feb. 1972 <sup>r</sup>	Mar. 1971	
			Shipm	ents			Total inventories						
All manufacturing industries, total	62,535	61,865	61,350	64,234	62,174	59,383	101,119	101,033	100,876	101,559	101,530	100,956	
Durable goods industries, total Nondurable goods industries, total	34,460 28,075	34,013 27,852	33,573 27,777	35,864 28,370	34,374 27,800	32,898 26,485		64,769 36,264	64,722 36,154	65,182 36,377	65,024 36,506	65,412 35,544	
Industry groups arranged by market categories:										:			
Home goods and apparel	5,648 12,189	5,500 12,148	5,540 11,975	5,905 12,079	5,694 11,924	5,763 11,189	14,146	10,939 14,158	10,870 14,082	10,929 14,084	10,893 14,263	10,502 13,580	
automotive Automotive equipment Construction materials, supplies, and	8,982 6,169	8,804 6,186	9,121 5,614	9,480 6,525	8,999 6,361	8,945 6,031	5,183	25,576 5,147	25,525 5,089	25,718 5,289	25,641 5,310	26,036 5,229	
intermediate products Other materials and supplies and intermediate products	5,681 23,866	5,610 23,617	5,624 23,476	5,598 24,647	5,242 23,954	4,864 22,591	, , , , ,	8,036 37,177	8,069 37,241	8,159 37,380	8,135 37,288	8,090 37,519	
Supplementary series: <sup>2</sup> Household durable goods industries Producers' capital goods industries Defense products industries (old series). Oefense products (new series)*	2,743 7,027 3,590 1,768	2,625 6,940 3,601 1,815	2,581 7,189 3,567 1,785	2,797 7,368 3,811 1,861	2,634 7,171 3,658 1,837	2,415 6,476 4,002 1,970	17,343 11,503	4,888 17,370 11,473 5,896	4,950 17,245 11,555 5,816	4,911 17,437 11,523 6,049	4,888 17,421 11,433 5,876	4,832 17,477 11,958 6,041	
			New o	rders					Unfilled	d orders			
All manufacturing industries, total	63,228	62,514	62,996	64,888	63,414	59,297	81,213	80,519	79,868	81,479	80,825	82,659	
Durable goods industries, total Nondurable goods industries, total	35,061 28,167	34,505 28,009	35,099 27,897	36,427 28,461	35,398 28,016			77,078 3,441	76,583 3,285	77,965 3,514	77,399 3,426	79,583 3,076	
Industry groups arranged by market categories: Home goods and apparel	5,802	5,489	5,571	6,017	5,736	5,768	2,429	2,269	2,282	2,352	2,246	1,967	
Coasumer staples Equipment and defense products, except automotive	12,195 8,761 6,158	12,146 9,019 6,415	11,989 10,223 5,689	9,239 6,438	9,244 6,549		44,584	44,817	,	44,416	44,743	43,927	
Construction materials, supplies, and intermediate products	6,005	5,596	5,669	5,941	5,313	4,964	1	10,130	10,144	10,426	10,082	10,609	
Other materials and supplies and intermediate products	24,307	23,849	23,855	25,180	24,640	22,732	23,746	23,303	23,067	24,285	23,754	26,156	
Supplementary series: 2  Household durable goods industries  Producers' capital goods industries  Defense products industries (old series).  Defense products (new series)*	2,883 7,039 3,486 1,768	2,601 7,242 3,452 1,780	2,615 8,110 3,790 3,124	2,892 7,389 3,701 1,847	2,671 7,540 3,511 1,810	2,417 6,516 3,508 1,682	24,390 24,291	1,819 24,378 24,397 20,937	24,075 24,547	24,265 24,269	1,802 24,244 24,378 20,780	1,604 23,368 25,173 19,738	

\*During 1968 manufacturers is orderance, communications, aircraft and aircraft parts, and ship building industries began to provide aggregate figures on shipments, orders, and total inventories of work performed for the Department of Defense. The results of these reports are included in these new defense series. Since there are no historical data available to develop separate seasonal factors for these reporters, the data have been seasonally adjusted using the factors of these industries. Preliminary. Revised. Shipments and new orders adjusted for trading-day and calendar-month variations; unfilled orders and inventories as of end of month. The supplementary series are regroupings of the separate industry categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household appliances; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Producers' capital goods (formerly machinery and equipment) industries - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances, communication equipment and electronic components), shipbuilding and repairing, and railroad and street car equipment.

Defense products industries (old series) - 8ased on reports for companies classified in the communication equipment, complete aircraft, aircraft parts, and ordnance industries. (Thus, this series includes significant amounts of nondefense work in these industries and omits defense work performed in the shipbuilding industry.)

Defense products (new series) - Based on separate reports on defense work filed by large defense contractors in the following industries: ordnance, communications, complete aircraft, aircraft parts, and shipbuilding. Thus, it differs from the old series in that it includes defense activity in shipbuilding and excludes nondefense work in ordnance, communications, complete aircraft, and aircraft parts. The data are comparable to those published annually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 3.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES (Based on seasonally adjusted data)

Item and industry group	Mo	onth-to-mo	nth	Ave	rage mouthly	Average, 1966-1967			
	Feb	Jan			3 months		12 months		Average decline
Tool and Industry group	Mar. 1972	Feb. 1972	Dec. 1971- Jan. 1972	Dec. 1971- Mar. 1972	Sept. 1971- Dec. 1971			Average rise +1.3 +2.1 +1.0 +0.5 +1.9	
Shipments: All manufacturing industries	+1.1	+0.8	+3.9	+1.9	+0.7	-0.6	+0.7	+1.3	-1.1
Durable goods industries, total Nondurable goods industries, total	+1.3 +0.8	+1.3 +0.3	+5.4 +2.1	+2.7 +1.1	+0.3 +1.1	-1.1 0.0	+0.7 +0.6	+2.1 +1.0	-1.7 -0.6
Total inventories: All manufacturing industries	+0.1	+0.2	+0.3	+0.2	+0.1	-0.1	+0.1	+0.5	-0.2
New orders:  All manufacturing industries  Durable goods industries, total  Nondurable goods industries, total	+1.1 +1.6 +0.6	-0.8 -1.7 +0.4	+6.0 +9.2 +2.3	+2.1 +3.0 +1.1	+1.2 +1.2 +1.3	+0.2 +0.4 -0.1	+0.8 +1.0 +0.6	+1.9 +3.0 +0.9	-1.3 -2.3 -0.5
Unfilled orders: Durable goods industries, total	+0.8	+0.6	+2.0	+1.1	+0.3	-0.2	-0.2	+0.8	-0.8

Table 4.--VALUE OF MANUFACTURERS' INVENTORIES, 8Y STAGE OF FABRICATION, 8Y INDUSTRY GROUP (Millions of dollars)

Industry group	Season	ally adj	usted		out seas djustmen		Season	ally adj	usted	Witbout seas adjustmen			
industry group	Mar. 1972 <sup>p</sup>	Feb. 1972 <sup>r</sup>	Jan. 1972	Mar. 1972 <sup>p</sup>	Feb. 1972 <sup>r</sup>	Mar. 1971	Mar 1972 <sup>p</sup>	Feb. 1972	Jan. 1972	Mar. 1972 <sup>p</sup>	Feb. 1972 <sup>r</sup>	Mar. 1971	
		Total Materials and supplie									ies		
All manufacturing industries, total	101,119	101,033	100,876	101,559	101,530	100,956	32,482	32,569	32,619	32,410	32,537	31,822	
Durable goods industries, total	64,858	64,769	64,722	65,182	65,024	65,412	18,978	19,037	19,149	18,757	18,877	18,786	
Stone, clay, and glass products Primary metals	2,220 9,544 23,225 13,947 15,912	2,235 9,459 23,248 13,850 15,977	2,234 9,407 23,273 13,787 16,021	2,304 9,529 23,357 14,031 15,961	2,303 9,502 23,316 13,955 15,948	2,354 9,472 24,090 13,895 15,601	736 3,690 6,316 2,694 5,542	711 3,682 6,357 2,678 5,609	756 3,660 6,388 2,651 5,694	741 3,519 6,281 2,723 5,493	752 3,577 6,296 2,718 5,534	733 3,209 6,396 3,068 5,380	
Nondurable goods industries, total	36,261	36,264	36,154	36,377	36,506	35,544	13,504	13,532	13,470	13,653	13,660	13,036	
Chemicals and allied products	6,698 2,331 2,193 25,039	6,684 2,378 2,171 25,031	6,690 2,406 2,186 24,872	6,817 2,319 2,222 25,019	6,818 2,342 2,211 25,135	6,868 2,335 2,174 24,167	2,320 559 661 9,964	2,299 566 648 10,019	2,310 580 648 9,932	2,323 569 636 10,125	2,305 555 635 10,165	2,388 550 692 9,406	
			Work iu	process			Finished goods						
All manufacturing industries, total	34,426	34,140	34,097	34,578	34,280	34,059	34,211	34,324	34,160	34,571	34,713	35,075	
Durable goods industries, total	29,019	28,878	28,831	29,227	29,011	29,018	16,861	16,854	16,742	17,198	17,136	17,608	
Stone, clay, and glass products Primary metals	267 3,165 10,338 9,898 5,351	290 3,092 10,335 9,810 5,351	272 3,087 10,322 9,776 5,374	291 3,222 10,426 9,926 5,362	285 3,147 10,426 9,817 5,336	335 3,263 10,846 9,361 5,213	1,217 2,699 6,571 1,355 5,019	1,234 2,685 6,556 1,362 5,017	1,206 2,660 6,563 1,360 4,953	1,272 2,788 6,650 1,382 5,106	1,266 2,778 6,594 1,420 5,078	1,286 3,000 6,848 1,466 5,008	
Nondurable goods industries, total	5,407	5,262	5,266	5,351	5,269	5,041	17,350	17,470	17,418	17,373	17,577	17,467	
Chemicals and allied products	928 451 355 3,673	899 452 348 3,563	891 460 346 3,569	935 453 346 3,617	907 450 345 3,567	887 417 329 3,408	3,450 1,321 1,177	3,486 1,360 1,175 11,449	3,489 1,366 1,192 11,371	3,559 1,297 1,240 11,277	3,606 1,337 1,231 11,403	3,593 1,368 1,153 11,353	

p<sub>Preliminary</sub>.
rRevised.

Table 5 .-- RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP (Based on seasonally adjusted data)

	Inven	tories - s	hipments r	atio	Unfilled orders - shipments ratio <sup>1</sup> (months' backlog)					
Industry group	Mar. 1972 <sup>p</sup>	Feb. 1972	Jan. 1972	Mar. 1971	Mar. 1972 <sup>p</sup>	Feb. 1972	Jan. 1972	Mar. 1971		
All mamnfacturing industries, total	1.62	1.63	1.64	1.74	2.16	2.17	2.15	2.38		
Durable goods industries, total	1.88	1.90	1.93	2.06	2.59	2.61	2.59	2.87		
Stone, clay, and glass products.  Primary metals.  Fabricated metals.  Machinery, except electrical.  Electrical machinery.  Transportation equipment.  Instruments and related products.	1.08 1.81 1.96 2.45 1.98 1.72 2.44	1.09 1.84 2.01 2.53 1.99 1.69 2.47	1.10 1.88 2.01 2.42 1.94 1.82 2.41	1.37 1.89 2.02 2.82 2.31 1.72 2.46	(NA) 1.19 3.32 2.79 2.87 6.00 (NA)	(NA) 1.17 3.32 2.83 2.89 6.03 (NA)	(NA) 1.18 3.27 2.67 2.84 6.10 (NA)	(NA) 1.62 3.41 2.94 3.27 5.83 (NA)		
Nondurable goods industries, total.  Food and kindred products. Tobacco products.  Textile mill products.  Paper and allied products.  Chemicals and allied products.  Petroleum and coal products.  Rubber and plastics products, n.e.c.	1.29 0.98 4.42 ( <sup>2</sup> ) 1.12 1.45 0.93 1.31	1.30 0.98 4.35 (2) 1.13 1.46 0.96 1.30	1.30 0.98 4.22 ( <sup>2</sup> ) 1.12 1.46 1.00	1.35 1.01 4.62 (²) 1.25 1.61 1.00	0.46 (X) (X) (NA) (NA) (NA) (X)	0.46 (X) (X) (NA) (NA) (NA) (X)	0.44 (X) (X) (NA) (NA) (X) (X) (X)	0.44 (X (X) (NA) (NA) (X) (X)		

Revised.

<sup>(</sup>NA) Not available. Preliminary. Revised. (X) Not applicable.

1Excludes the following industries with no unfilled order: Wooden containers; glass containers; metal cans, barrels and drums; motor vehicle assembly operations; foods and related products; tobacco; apparel and related products; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

2Beginning with July 1971, the shipments level for this series appears to be high compared with information shown in other textile series. All data for this industry group are, therefore, withheld pending investigation and revision.

# **Appendix**

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

#### DESCRIPTION OF THE SURVEY

The Manufacturers' Shipments, Inventories, and Orders survey provides monthly figures that are comparable to the annual totals published each year in the annual survey of manufactures (ASM). The ASM is based on a sample of approximately 60,000 manufacturing establishments drawn from the 5-year census universe of about 310,000 estab-In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. The establishments do not provide information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification System (SIC) and area data for industry groups.

The monthly survey M3-1 does not provide information at the complete SIC industry detail because of the smaller size of the reporting panel and the fact that most companies cannot provide shipments, inventories, and orders data monthly for individual establishments.

The monthly reporting panel consists of approximately 5,000 reporting units and includes virtually all companies with 1,000 or more employees and a sample of the smaller ones. The reporting unit typically comprises the entire operations of a company although many of the larger diversified companies file separate divisional type reports for their operations in different industries.

Most of the reporting units include mixed industry activity even within the broad industry categories of the monthly survey. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category represent effectively the month-to-month movements of the establishments in the SIC industries which make up the category. Thus, the monthly reports are used to update the ASM estimates by using a link relative of matched companies in each industry.

#### **EXPLANATION OF TERMS**

Value of Shipments--Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the aircraft industry and shipbuilding, the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed aircraft or ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-1 industry categories typically are groupings of industries, this duplication is significant for the all manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-1 industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from one division of the company to another as if they were net sales to outside customers. Although this

definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders Received and Unfilled Orders--Orders as reported in the monthly survey are net of cancellations during the month. They include orders received during the period and also filled during the period as well as those orders received for future delivery. They also include the net sales value of contract change documents which increase or decrease the sales value of the unfilled orders to which they relate. Orders include only those supported by binding legal documents such as signed contracts, or letter contracts. In case of letter contracts the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included. The respondent is instructed to deduct the sales value of paritial or complete cancellation of existing orders.

Unfilled orders include orders as defined above that have not yet passed through the sales account. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net sales.

While both new orders and unfilled orders are used in reviewing individual company reports for consistency, only unfilled orders are estimated directly in the tabulated totals. New orders are derived from the shipments plus net change in unfilled orders for each industry category. This procedure is followed for seasonally adjusted data as well as for the unadjusted data. Shipments and unfilled orders are seasonally adjusted independently. Seasonally adjusted new orders are derived from seasonally adjusted shipments and seasonally adjusted unfilled orders.

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